10,00 3

16.00

32,00

Relivious, Marriage, Birth and Death Notices Solicited, and will be willingly inserted FREN OF CHARGE. Obituaries will be charged

The Formation of Caves.

It becomes an interesting question to find out how this subterranean system was made; for in so many cases a valley passes into a ravine, and that into a cave, that the cause which has formed one must have formed all. It requires but a cursory glance to see at once that running water was the main agent. The limestone is so traversed Had lost her sepals. by joints and lines of shrinkage that the water rapidly sinks down into its mass and collects in small streams by hook or crook, or mass, and collects in small streams, which owe their direction to the dip of the strata and the position of the fissure. These channels are being continually deepened and widened by the mere mechanical action of the passage of stones and silt. But this is not the only way in which the rock is gradually eroded. The limestone is gradually eroded. The ninesant is composed in great part of pure carbonate of lime, which is insoluble in bonate of lime, which is insoluble in By-Baby bunting.

By-Baby bunting,
By-Baby bunting,
By-Baby bunting,
Mother's at the telescope
To read the baby's horoscope. of our atmosphere, and is invariably present in the rain-water, and is given off by organic bodies. By this invisible agent the hard chrystaline rock is always being attacked in some form or another. The very snalls that take refuge in its crannies leave an endurable mark of their presence in a surface fretted with their acid exhalations, which very often pass current among geologists for the borings of pholades and are the innocent cause of much speculation as to the depression of the mountain tops beneath the sea in comparatively modern times. The earbonic acid taken up by the rain is derived in the main from the decomposing vegetable matter which generally forms the surface of the soil on the limestone. Its effects are to be seen in a most marked degree in the bare gray masses of rock termed "pavements," that stand out like roches moutonness from the purple heather, and are worn and fissured into the vines and caves in miniature; and generally the strata is divided into a series of large angular blocks, which rock with the greatest freedom. The minute fossil shells and fragments o crinoids standing out in bold relief testify that the agent which has removed so much rock is chemical, not mechanical. This invisible agent is equally at work in the caves as well as above ground, everywhere attacking the surface even out of the reach of the streams. The endless varieties of stalactites and stalagmites are

Maemillian's Magazine. The Tunnel Under the Sea.

ment of caves must be assigned .-

The grand project of tunneling under the sea from Dover to Calais, which was necessarily suspended during the progress of the Franco-English Governments, and it is thought that the necessary privileges

BOHWAR BUILDEN

VOL. VII.

Fading beneath our pressing feet " Strewn upon lawn and lane and street,

Beautiful leaves!

Dyed with the bues of the sunset sky—
salling in glory so silently.

Beautiful leaves!

So will the years that change your tint, Mark upon us their autumnal print— Beautiful leaves! So shall we fall from the tree of time, Pade like ye, in a frosty clime, Beautiful leaves!

But when the winter of death is past, And we wake in eternal spring at last— Beautiful leaves! May He, who paints you every hue, Form our lives a chaplet new, Oh beautiful leaves!

FUN.

Nursery Rrymes for Little Selentists

FOR THE LITTLE BOTANIST.

She'll make up her mind not to find 'em

Four-and-twenty gases Baked into a ple; When the ple was opened, Wonderful to say,

FOR THE ASTRONOMICAL INFANT.

FOR THE YOUNG GEOLOGIST.

A SONG FOR SENTIMENTALISTS.

And 'mid the stars above
The sun no more burn blue,
Among the woodland trees,
The whales their song may cease,
And oysters at their ease,
May keep their beds in peace.

If never I cease to love,
The cows may catch the croup,
While of the turtle dove,
Lord Mayors no more make soup,
The frogs may plow the main,
The tigers soar far above,
The rain beams cease to reign,
If never I cease to love.

of a bit more silly than some we have heard lately I never I cease to love, The moon may change her hae,

Trilobite Graptobite, Nautilus pie.

Seas were calcareous Oceans were dry, Eocene, miocene, Pliocene, tuff, Lias and trias,

And that is enough

Oxygen and nitrog Both flew away!

FOR THE CHEMICAL CHILD.

Never to freshen another spring,
Never to know what the summer may bring:
Beautiful leaves!
Withered by wintry frost and cold,
Soon to decay in the common mould,
Beautiful leaves!

BEAUTIFUL LEAVES.

BOLIVAR, HARDEMAN COUNTY, TENNESSEE, DECEMBER 1, 1871.

TRIED AND TRUE. .

jointly for the more generous favors of fortune without commensurate result, decided at last to separate for a a time; the one to go to the mines and work for the fraternal partnership there, while the other remained

of heroic brevity he consigned his woven fabrics, and makes as strong a bride to the protection of his brother, seam. ing and trapping to his by any

present islands would be hills. Submerge a prairie, and its hills would
become islands. No tree is found on
the Everglades, because they are
constantly covered with water no constantly covered with water; no trees are found on the prairies, because they were long covered with water. Time will come when this vast plain will be clear of water, and they regarded his present, and felt themselves belore they are required to be cast aside.

Felted paper is capable of being made into lace, fringe and trimming; and for these several purposes it is they regarded his present, and felt the should be in some place reached by regular mails; but now he was impatient to know how they regarded his present, and felt themselves belore they are required to be cast aside. merely so much solid matter taken by it out of the rock, and redeposited where the excess of carbonic acid in the water happens to be taken up by a free current of air. To it then, as well as to the mechanical power of the stream, the formation and enlargethey regarded his present, and felt unequaled in point of cheapness and root and sweet potato patches merely ries respecting the silent ones. The has long been worn by the inhabitants. require that stirring of the ground necessary in removing the full grown roots to cause the younger ones to grow and keep on growing. It is really not necessary to plant more than once. It is a lazy man's paradise. No wonder the Indians were unwilling to move to the West; it was not the graves of their fathers they gence of its seeming effect upon pumpkin is small, round and sweet; sinister sense. He believed that he they cut it open, put in a raccoon or was doubly betrayed; that his wife

NAME AND ADDRESS OF TAXABLE PARTY.

man before him, nothing was left to them but a rushing journey to a cer-An O'er True Story of California Life, tain valley farm near San Jose, where the best, truest, and staunchest, would In the year 1851, there were among at once be the most surprised and hap-

Paper Clothing.

In civilized countries, the manufacto both young men; but when it infancy, and it has taken us many ly ignorant of their nature or value, came to the question of which of years to master the difficulties attend- either lost or destroyed most of them.

At this juncture of affairs, it remains like himself, had left home to woo for an English inventor to solve the fortune on the Pacific coast; and al- difficulty, and give us a really servithough he could not take her with ceable paper fabric. It is a mixture of him into the wild, comfortless life of various animal and vegetable subthe mines, the satisfaction of feeling stances, the former being wool, silk, that he had at least secured her for himself, and had a beloved brother in whose care to leave her, gave him in whose care to leave her, gave him more courage and inspiration for his departure than might have been possible to him as a bachelor. Wedded sible to him as a bachelor. Wedded he was, then, and after a honeymoon gether with a machine as readily as

and bravely marched away with This paper is of a very serviceabl napick and shovel to the gold fields of ture, and is made into table-cloth, the north. Eager as he naturally napkins, handkerchiefs, pants, curwas to dig his prize from the earth tains, shirts and other articles of dress. and hasten back to the greater prize The petticoats made from this felted left behind, he was yet firmly resolv-ed to deny himself wife, brother and home, until he indeed be the bearer ary skill with the needle.

The strain of the state of the

A \$25,000,000 Diamond.

Mow a Georgian Lost his Fortnue.

semi-civilized Indians for several thou-

The yield in Brazil, for forty years, om the labor of from thirty thousand largest one by far was lost by Dr. Loyd, who was employed to oversee thirty negroes in working the Glade Gold

eastor oil plant grows up to be a large indignant Thompson wrote to a tree of several years' life. The arrow friend in San Francisco with enquiold cupboard, except such as the chit- chapter has only eighty-nine verses." in my own family and household she made a little bag, and put them into that for future amusement. Some lustre, must have been worth from

Curiosities of Memory. Arsenic in Wall Paper.

John Kemble used to say that he!

could learn a whole number of the Medical Journal writes: "Hitherto From a recently published work by Morning Post in four days; and it has been generally supposed that In the year 1851, there were among the early settlements of San Francisco, California, two brothers named Thompson, who, having come thither from an Eastern State at the best of the state er from an Eastern State at the beginning of the "gold excitement," fort, and happiness to a man who for three years before, and labored continued the singular adventure the singular adventure will recognize the singular adventure the state, says the Atlantic New Era, which contains any three years before, and labored continued in the base of c connection with the diamond-hunt- mons thirty-seven years ago one of rule contains arsenic, and is, thereing in that valuable section of the the members wrote out his speech, fore, injurious to health. One shade sent it to the newspapers, and repeat- of green is no safer than another, for cient chairs so chary have historians Running parallel with the marble is ed it to the house in the evening; it the very palest green frequently conthe immense ledge of itacolumite, or was found to be the same verbatim tain large quantities of arsenite of turing of paper into various articles of elastic sandstone, the matrix of the as that he had written out. John copper, the brilliant color of which in the city and improved such chances as ordinary business should offer.
By such an arrangement two promising fields would be worked at once,
ising fields would be worked at once,
is in the city and improved such chanclothing has only been the business diamond. It extends throughout the country for thirty miles, and in every gold deposit or branch mine near it, have been found splendid diamonds being total.

elastic sandstone, the matrix of the clothing has only been the business of a very brief period, but among barbarous people it is an industry that has been cultivated for years. With us, have been found splendid diamonds going home; this was tested by being total. and its wisdom was equally obvious the employment still remains in its by the gold washers, who, being totalto both young men; but when it infancy, and it has taken us many by ignorant of their nature of value. the clergyman's manuscript. Scali- of brighter color. The quantities of back and so high that one's feet do them should assume the hardships ing its introduction. At first, our Some were sent to Europe to be cut ger could repeat a hundred verses or arsenic used in green papers appear not touch the floor. They are also and perils of a miner's life, neither exhibited an alacrity to name himself for the adventure.

Some were sent to Europe to be cut and set in jewelry, but most of them are still in time. Seneca could repeat 2,000 fractional part of a grain up to the soft wood. Those that had arms used the hands of the finders, who keep words on hearing them once. Magnetic frightful amounts of six, nine, fourtime as weapons of offence, to poke the hands of the finders, who had a prodigious teen grains and upwards to the square into their sister's ribs or raise his el-To decide this delicate point they drew lots, by which formula of fate the elder Thompson was doomed to become the miner, and accordingly procured an outfit, and prepared to leave the city. Before taking the leave the city. Before taking the latter step, however, the miner elect chose to bring a little romance of his chose to bring a little half carat, or from one to two wrote out the whole essay. Cyrus, which caused most serious illness. grains. The carat is a fraction less if some of the old historians are to "When the atmosphere of dwelthan four grains (three and one-sixth), be credited, could remember the lings all over the kingdom, in town Florentine ambassador said he saw but in all, estimates and sales in the name of every soldier in his immense and country, is thus more or less the Princess Elizabeth drop on ont carat is put at four grains. It origina- army. There was a Corsican boy poisoned with arsenic, the most vol. | knee five times before her brother, ere ted from the use of the seed of a plant who could rehearse 40,000 words, atile and the most subtle of all poisin the East Indies, in the sale of diamonds. This berry, which grows only in that region, though not very accurate, answered the purposes of the in a reversed order, without m s ng a single mistake. A physiciava of subject is earnestly called for. I cannot but regard it as a matter of the control of this subject is earnestly called for. I cannot but regard it as a matter of the control of this subject is earnestly called for. I cannot but regard it as a matter of the control of this subject is earnestly called for. I cannot but regard it as a matter of the control of this subject is earnestly called for. I cannot but regard it as a matter of the camp-stool when he visited the Queen of France, so determined was she to be looked up to. ago, could repeat the whole of "Para- great national importance, affecting visit Catherine of Braganze, the widow dise Lost" without mistake, although masses of our population physically, of Charles II., in Lisbon. He sent he had not read it for twenty years mentally, and morally, to an extent word that he was coming, and though ween one thousand and twelve hun
he had not read it for twenty years | mentally, and morally, to an extent | word that he was coming, and though |
Eucler, the great mathematician, little conceived of at present. There | she was confined to her oed with an dred ounces. Of this large amount when he became blind, could repeat appears good reason for believing attack of erysipelas, she replied that they rarely found more than three or the whole of Virgil's ".Anid," and that a very large amount of sickness she was "dying to see him." In this four, and never more than ten, that could remember the first line and the and mortality among all classes is interview the duke, with all his arch-

home, until he indeed be the bearer of some share of wealth. So when his first essay in the mines did not prove wholly satisfactory, he went sturdily onward into the Indian country, and, amongst the red men, adding hunting and trapping to his of stamped, and bear so filed to stamped, and bear so filed as first in diamonds as Brazil, and contain even a larger per cent of sizable ones of the first water. In may be considered as the result of sizable ones of the first water. In may be considered as the result of sizable ones of the first water. In may be considered as the result of sizable ones of the first water. In washing for gold, all the larger ones of the first water. In diamonds as Brazil, and contain even a larger per cent of sizable ones of the first water. In washing for gold, all the larger ones of the first water. In day, which so continually baffle ones of the first water. In washing for gold, all the larger ones of the first water. In washing for gold, all the larger ones of the first water. In day, which so continually baffle ones of the first water. In washing for gold, all the larger ones of the first water. In day, which so continually baffle ones of the first water. In washing for gold, all the larger ones of the first water. In day, which so continually baffle ones of the first water. In day, which so continually baffle ones of the first water. In washing for gold, all the larger ones of the first water. In day, which so continually baffle ones of the first water. In day, which so continually baffle ones of the first water. In day, which so continually baffle on the first water. In day, which so continually baffle ones of the first water. In day, which so continually baffle ones of the first water. In day, which so continually baffle ones of the first water. In day, which so continually baffle ones of the first water. In day, which so continually baffle ones of the first water. In day, which so continually baffle ones of the first water. In day, which so continually baffle ones of the first wat The Everglades of Florida.

The Everglades of Florida.

The Everglades are just a submergative and they exhibit the manner in which the great Western prairie, and they exhibit the great Western prairies are fire which the great Western prairies are fire which the great Western prairies and they exhibit the manner of the was in its height, and there succeeded in digging no less than 200 glades, (it could be done), and the present islands would be hills. Subspired and successful to the refflers, with the needle. In Germany, paper napkins have they could not have those of their lustre, by any ordinary skill with the needle. In the up to set the cause of their lustre, by name book, chapter and verse; or if system, resulting from the occupathe ignoran miners. Another was used for years, by the boys, as a "mid-dle-man" in playing marbles; and the words. A gentleman to that the papers; and on the removal of those words. A gentleman, to test him, papers the symptoms gradually subwho was employed to oversee thirty negroes in working the Glade Gold Mipe, a deposit twelve miles northeast of the place where the place where the place where the of organic disease. But it would on low stools. King James, though passage is to be found, but at the seem not improbable that prolonged, an exile, had to confer empty titles During the four years he was em- same time pointed out the verbal er- exposure to the same poisonous in- on his attendants, in order that they During the four years he was employed, he picked out of the same gentleman asked him the pannings for gold every night, after the day's washing was over about seventh chanter of the book of Numhalf a pint of pretty stones, which he bers. Aleck almost instantly re- "Having witnessed the effects of gave to his wife, who put them in an plied, "There is no such verse; that slow poisoning by arsenical papers

Vaccination and Disease. of these, from their size and reputed on the one hand, and those who have twelve years we were rarely free twenty thousand to fifty thousand dol- had most to do with the treatment of from illness in some form or other. twenty thousand to fifty thousand dollars. But the "big one" was found by himself whilst working in the pit in place of a sick hand. He said that Prussian war, has been revived, with intelligence of success in the graves of their fathers they were unwilling to move to the West; it was intelligence of a sick hand. He said that the money came; but such intelligence of a sick hand. He said that the money came; but such intelligence of a sick hand. He said that the money came; but such intelligence of a sick hand. He said that two hours by sun (he had no about two hours are had not had no about two hours and had no about two hours are had not had no about two hours are had not had no about two hours are had not had According to the reports made to only on one side, the other side being cine disease, nor does he believe in including several servants, and num-English Governments, and 12 is thought that the necessary privileges are thought that the necessary privileges will soon be accorded, and the preliminaries arranged for entering in its the fire. The hunters think it also on be accorded, and the preliminaries arranged for entering in its the fire. The hunters think it also on be accorded, and the preliminaries arranged for entering it in the fire. The hunters think it also on be accorded, and the preliminaries arranged for entering in its the fire. The hunters think it also one was doubly better the blackest treated and his prether had basely and heart-liminaries arranged for entering in the fire was the preliminaries arranged for entering in the fire was the preliminaries arranged for entering in the popular reports that the area of word with a crust of iroven sufficient seasors, or does he believe in chey cut it for the popular reports that the area of the covered with a crust of iroven sufficient seasors of the popular reports that the area of the popular reports that the popular reports that the area of the popular

NO. 19.

A correspondent of the British

weighed more than thirty carats. last line on every page of the particular edition which he had been ion that, when developed, Half County will be as rich in diamonds as Bratty will be as rich in diamonds as Bratty allowed the mist rich and the particular edition which he had been accustomed to read before he became the mist rich and the particular edition which he had been accustomed to read before he became the mist rich and the ent day, which so continually baffle was very much shocked at his bad

during a number of years, and having suffered severely myself from the same cause, I speak from personal

Chairs, Off and On.

There can be no doub! that originally chairs were not chairs, but stools If Ell had lived in our time he would have sat in a chair and could have not fallen backwards when the ead news

come that the ark was taken. King Alfred the Great's throne is said to have been a three-legged stool. A great step was taken when stools advanced from three legs to four. But chairs ought to make progress, for we notice that they always put their best feet foremost. Of course, even from the first, the rudest seats might have their nakedness covered by rich tapestry and cushions,

An ancient French throne which Naleon L used at Boulogne, when be hought he could conquer England, is

We really know very little about anbeen of information on this head. It seems that benches of wood and stone were formerly used even by royal personages, so that kings and queens stood, or rather sat, on the same footing as the commonest people now do. Some ancient specimens of chairs are

They are perfectly straight in the

king's sister might not take a chair at all, but must sit on a bench, and the she took her place, which by thae time she must have needed So the Prince of Wales had to squat on a

his chair.

In those days if little boys happen ed to be princes, they were perched on lofty arm chairs, and if tall ladies chair in a room. A single cane chair would thus rouse the spirit of a Cain .-Youth's Companion.

A Persian Tale.

There was once a prince, who, having been much displeased with ed that he should be shut up in a high tower. In this tower there was only one entrance, which was bleman had been placed there. Thus all hope of escape seemed to be cut off, and the unhappy man was left to perish. Inside the tower there was a long winding staircase, by which the prisoner reached the top. While looking down from there he observging a faint hope that she might be able, by some means or other, to aid her husband in escaping from his place of confinement. On inquiring if she could be of any service to him, he replied: "Oh, ves; go and procure a black beetle, a little grease, a skein of silk, a skein of twine, and a long rope." The poor wife bastened to obtain what her husband asked for, wondering, no doubt, at the strangeness of his request. She soon returned, furnished with the things. Her husband then directed her to put the grease on the beetle's head, to fasten the silk to its hind